



25-7-86

भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 34]

नई विल्सनी, शनिवार, अगस्त 23, 1986 (भाद्रपद 1, 1908)

No. 34]

NEW DELHI, SATURDAY, AUGUST 23, 1986 (BHADRA 1, 1908)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 23rd August 1986

ADDRESS AND JURISDICTION OF OFFICES OF THE
PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates, III Floor,
Lower Parel (West),
Bombay-400013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),
214, Acharya Jagadish Bose Road,
Calcutta-700 017.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

CORIGENDUM

1. In the Gazette of India Part III, Section 2, dated 11th January '86, under the heading 'Complete Specification Accepted' on Page 27, Column 1, last line :
 (i) in respect of Patent Specification No. 157093 (Appl. No. 575/Del/81) for the name of the Inventor 'AERISH KARATA' read 'AMBRISH KATARA.'

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

17th July, 1986

536/Cal/86. Degussa Aktiengesellschaft. A thermoelement for measuring temperatures in vacuum furnaces.
 537/Cal/86. Degussa Aktiengesellschaft. Apparatus and process for producing carbon black.
 538/Cal/86. Belorussky Politekhnichesky Institut. Composition for making gypsum articles.

18th July, 1986

539/Cal/86. Siemens Aktiengesellschaft. A contact device.
 540/Cal/86. Orszagos Tanszergyarto Es Ertekesito Vallalat. Educational visual aid particularly for demonstration in solid geometry.
 541/Cal/86. Tsentralny Nauchno-Issledovatel'sky Institut Po Proizvodstvu I pererabotke Naturalnogo Shelka. Installation for pretreatment of cocoons before reeling.
 542/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to circuit breaker with force generating shunt.
 543/Cal/86. David Solomon. Toilet seat mechanism. (Convention dated 22nd July, 1985) Australia.
 544/Cal/86. Warman International Limited. Adjustable wire bend.

21st July, 1986

545/Cal/86. The Babcock & Wilcox Company. Primary air exchange for a pulverized coal burner.
 546/Cal/86. Hydrovision Limited. View port for an underwater vehicle.
 547/Cal/86. Metacon AG. Procedure to start a continuous casting plant with many billets.
 548/Cal/86. Ultimate Survivor of America, Inc. Deferred-Action Battery.
 549/Cal/86. Nippon Kokan Kabushiki Kisha. Method for the production of ferrochromium and the rotary furnace used therefor. [Divisional dated 21st July, 1982].

22nd July, 1986

550/Cal/86. The Undertakings of Britannia Engineering Company Limited A pine-Apple leaf fibre extraction machine.
 551/Cal/86. Metallurgical & Engineering Consultant (India) Limited. tuyere stock for blast furnace.
 552/Cal/86. University of Pittsburgh. Syringe apparatus and valve employed therein.
 553/Cal/86. Proizvodstvennoe Obiedinenie "Nevsky Zavod" Imeni V. I. Lenina. Centrifugal compressor impeller.

554/Cal/86. Vsesojuzny Nauchno-Issledovatel'sky Proektno-konstruktorsky I Tekhnologichesky Institut Elektrotermicheskogo Oborudovaniya. Induction-Plasma Furnace.

555/Cal/86. Gattys Techniques S. A. A container providing safeguard from radiation for transport and storage of radio-active materials.

APPLICATION FOR PATENT FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-110 005

1st July, 1986

574/Del/86. Yogeshwar Oberoi, "Mechanically operated kiln solid fuel feeder".
 575/Del/86. The Firestone Tire & Rubber Company, "Solvent fractionation of guayule rubber".
 576/Del/86. GKN Technology limited, "Spring Assemblies". (Convention date 11th July, 1985) (United Kingdom).
 577/Del/86. Gerald K. Yankoff, "Method and apparatus for machining".

578/Del/86. The Secretary of State for Trade and Industry in her Britannic Majesty's Government of the United Kingdom and Northern Ireland, "Cam follower mechanisms". (Convention date 3rd July, 1985) (United Kingdom).

579/Del/86. Solvay & Cie, "Apparatus for fast determination of rheological properties of thermoplastics".
 580/Del/86. Council of Scientific and Industrial Research, "An improved process for cold pelletization process for chrome ore fines and concentrates".

2nd July, 1986

581/Del/86. Suraj Prakash Seth IAS, "Bio-Power driven water lifting pump".
 582/Del/86. UOP Inc., "Disc-Axial multiport valve".
 583/Del/86. The Goodyear Tire & Rubber Company, "Conveyor belt damage sensor".

584/Del/86. The Goodyear Tire & Rubber Company, "Siloxane Containing network polymer".

585/Del/86. Ferodo Limited, "Improvements in or relating to clutches". (Convention date 16th July, 1985) (United Kingdom).
 586/Del/86. Ducellier ET CIE, "Centrifugal advance regulator for the ignition distributor or an internal combustion engine".

587/Del/86. Apple computer, INC., "Peripheral Bus".

588/Del/86. Colgate-Palmolive Company, "Bleachactive detergent additive composition".

3rd July, 1986

589/Del/86. Colgate-Palmolive Company, "Non-gelling liquid detergent composition containing higher fatty dicarboxylic acid and method of use".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALAJAH ROAD, MADRAS-600 002

8th July, 1986

521/Mas/86. K. Nagesh. A culinary vessel of improved thermal efficiency.
 522/Mas/86. F. L. Smith & Co., Protective triggering of thyristors of a pulse generator.

523/Mas/86. Dana Corporation. Clutch with cantilevered belleville spring.

524/Mas/86. Man Gutehoffnungshutte GMBH. Tying of the moving blades in a thermal turbo-machine.

525/Mas/86. Gogent Limited. Methods and products for treating and colouring materials. (July 12, 1985; United Kingdom).

9th July, 1986

526/Mas/86. Owens-Illinois, Inc., Round juice bottle formed from a flexible material.

527/Mas/86. Societe des Produits Nestle S.A. Food product.

528/Mas/86. U. V. Nayak. Angular Motion Apparatus.

10th July, 1986

529/Mas/86. Societe Francaise D'Organo Synthese (S.F.O.S.). The preparation of methacrylic esters by transesterification.

11th July, 1986

530/Mas/86. Merlin Gerin. Miniature electrical circuit breaker with multiple moving contacts and thermomagnetic trip release.

531/Mas/86. Repligen Corporation. Use of YM 1-6 and other ligninolytic enzymes.

532/Mas/86. Repligen Corporation. Novel Enzymes which catalyze the degradation and modification of lignin.

533/Mas/86. Raychem Corporation. Optical fiber distribution network.

534/Mas/86. Stamicarbon B. V. Process for producing polyethylene articles having a high tensile strength and modulus.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application. Photo copying charges may be reckoned on the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

Ind. Cl. : 97 E.

158031

Int. Cl. : H05 B5/00.

Title : THREE PHASE (3-PHASE) ELECTRICAL FURNACE FOR THE MANUFACTURE OF GREEN BLACK SILICON CARBIDE (SiC).

Applicants : GRINDWELL NORTON LIMITED, AN INDIAN COMPANY DULY REGISTERED AND INCORPORATED UNDER THE COMPANY'S ACT, 1956 AND HAVING ITS REGISTERED OFFICE AT : 148, MAHATMA GANDHI ROAD, FORT, BOMBAY-400 023, INDIA.

Inventors : (1) DR. MADHAO KHANDERAO GHAR-PUREY, (2) DR. ARAKALI LAKSHMINARAYANA SHASHI MOHAN, (3) PAPPUSAMY KANAGARAJ.

Application No. 8/BOM/1983 filed on 13 January, 1983.

Complete after provisional left on 12th April, 1984.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch Bombay-400 013

6 Claims

A 3-phase electrical resistance furnace for manufacture of green, black SiC (of desired quality) comprises basically of 3-electrically conducting cores in the delta and/or star configuration/form, which in turn are connected to three electrodes of the three-phase electrical power supply, and wherein the gap between adjacent electrodes is covered by removable/replaceable boundary walls/side wall/gates made of usual refractory or other suitable material, castable or otherwise, and the furnace is packed/tamped with an intimate mixture of crushed quartz/silica sand and carbonaceous materials such as raw petroleum coke or anthracite coal or coconut shell charcoal and/or recycled material from previous furnace runs, which when heated to high temperatures of upto about 2400°C. by the passage of current through the said core produce green or black SiC of the desired quality.

Provisional specification 8 pages.

Drg. 1 sheet.

Complete specification 10 pages.

Drgs. Nil.

Ind. Cl. : 67 C.

158032

Int. Cl. : G 05 F1/00.

Title : A CENTRALISED REMOTE CONTROL SYSTEM FOR EFFECTIVE LOAD MANAGEMENT IN POWER SYSTEM.

Applicant : THE TATA HYDRO-ELECTRIC POWER SUPPLY CO. LTD., THE ANDHRA VALLEY POWER SUPPLY CO. LTD. THE TATA POWER CO. LTD., OF BOMBAY HOUSE, HOMI MODY STREET, BOMBAY-400 023, INDIA.

AN INDIAN COMPANY AS A SINGLE ENTITY.

Inventors : (1) KRISHNA KUMAR RAMAKRISHNA PANDIT, (2) GOPAL KRISHNA THAKUR, (3) SUBRAMAIAN VENKATRAMANI.

Application No. 54/Bom/1983, filed on February 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

2 Claims

A Centralised Remote Control System for selective switching and effective load management in power system utilities comprising a central transmitter connected to the low voltage side of a 3-phase injection transformer for modulation of the power line voltage at the said transmitting end by shorting the L. V. winding of the said transformer by a controlled rectifier switch momentarily 30° before zero-crossing of the said voltage waveform to modulate the said voltage waveform

on all three phases for 15 predetermined zero-crossing positions spread over 100 cycles of the said voltage waveform, constituting a complete signal and repeating this said signal 3 times to ensure reliability; the said modulated voltage waveform being a radially transmitted by the said powerline itself to the remote ends; the receiver located at the remote load control points and connected to said power line, to perform the detection, matching the address, counting of 2 good signals out of the 3 transmitted signals and execution of the switching commands of the said signals.

Complete specification 17 pages.

Drgs. 6 sheets.

CLASS : 190 D.

158033

Int. Cl. : F03 d-1/00+3/00.

AN IMPROVED WIND MILL.

Applicants & Inventor : SHAM MURTI MEHTA, 2. TULSI BHAVAN, 1194/14, SHIVAJI NAGAR, PUNE-411 005.

Application No. 148/Bom/1983 filed April 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

1 Claim

An improved wind mill comprising a strong frame work support and a vertical shaft with suitable bearings for its rotating blades mounted on the said frame, characterised in that the said rotating blades are two in numbers, each of the said rotating blades is in the form of vertically cut semicircular drum and a pair of such rotating blade is arranged to form a configuration of letter 'S' in Plan, the said rotating blades are made of sheet metal or fibre glass or the like material, arrangement being such that the blowing wind dashes against the hollow portion of one of the said rotating blade at a time to push the same to accomplish rotating movement of the shaft which in turn is harnessed to perform any work in the known manner.

Compl. Specn. 4 pages.

Drg. 1 sheet.

CLASS : 175 H.

158034

Int. Cl. : F02 F 3/28.

IMPROVEMENTS IN OR RELATING TO PISTONS FOR USE IN COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES.

Applicants : KIRLOSKAR OIL ENGINES LTD., LAXMANRAO KIRLOSKAR ROAD, POONA-411 003, MAHARASHTRA, INDIA.

Inventors : (1) NIDADAVOLU NARA NARAYAN RAO. (2) SHRIKISH JAYAWANT KURANE.

Application No. 151/Bom/1983 filed April 30, 1983.

Compl. after provisional left April 24, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

10 Claims

An improved piston for use in a compression ignition internal combustion engine, said piston comprising a piston crown provided with a piston cavity, a ringzone for accommodating piston ring(s) and a piston skirt provided with piston pin bosses, the improvement being that the piston cavity surface is surrounded by an air space, air in said air space acting as thermal insulation to minimise heat loss from the piston cavity to the piston pin bosses and ring zone during combustion of fuel in said engine thereby increasing combustion efficiency or thermal efficiency of said engine.

Complete specification 14 pages.

Drgs. 4 sheets.

Provisional specification 5 pages.

Drgs. 5 sheets.

IND. Cl. : 172 E.

158035

Int. Cl. : B65H 54/00.

Title : IMPROVED REVERSING TRAVERSE AND FOLLOWER MECHANISM FOR YARN WINDING OR THE LIKE.

Applicant : (1) NARASINH PURUSHOTTAM TAMHANKAR, 1202/3, GHOLE ROAD, PUNE-411 004, MAHARASHTRA, INDIA, (2) TARAPRAKASH PRABHAKAR VARTAK, 87/1C, SAHAKAR NAGAR, PUNE-411 009, BOTH ARE PARTNERS OF THE FIRM :—TRIDENT TAKE-UPS, 208, HINGANE KHURD, SINHAGAD ROAD, VITTHALWADI, PUNE-411 009, MAHARASHTRA, INDIA.

Inventor : NARASINH PURUSHOTTAM TAMHANKAR.

Application No. 228/Bom/1983, filed on 20th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

2 Claims

Improved reversing traverse and follower mechanism for yarn winding machines or the like comprising French bean shaped follower means having an appendage underneath the said French bean portion, the said appendage may be a fixed portion or as a variation the said appendage may be a revolving portion; a cam shaft having a two spiral grooves, one of which is a left hand groove and the other is a right hand groove, both meeting at respective two ends of the said cam shaft to accomplish reversal of the follower means, characterised in that the depth of the said spiral grooves is reduced at the reversing points around both the ends, such that the said French bean portion of the follower means is relieved from the groove, while the said lower appendage still remains engaged such that the said follower means is now capable of instantly changing the direction at the reversing points to accomplish better winding quality.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

IND. Cl. : 95 K.

158036

Int. Cl. : B 25 B13/00.

Title : CAM-TYPE PIPE-WRENCH.

Applicant & Inventor : NIRMAL PANNALAL, C/O. PANNALAL METAL INDUSTRIES BARODA, BETUL, MADHYA PRADESH, INDIA-460 002.

Application No. 258/Bom/1983, filed on August 20, 1983.

Complete after provisional left February 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

9 Claims

A cam type pipe-wrench comprising of a lever a 'C' shaped jaw pivotally mounted over said lever by steel pivot-pin means one end of said cam-lever having cam profile provided with serrations on cam face, other end of cam lever in the form of a lever and used as handle, the said 'C' shaped jaw has one limb curved and serrated in the inner margin, while the other limb having two flat spaced identical flanges substantially parallel to each other, the space between said flanges accommodating cam portion of said lever and the said lever having plurality of holes allowing different positions of said jaw on said lever providing successive ranges of increasing gaps between serrated portions of jaw and cam portion of lever as stated hereinbefore.

Compl. Specn. 9 pages.

Drg. 1 sheet.

Provisional specification 6 pages.

Drgs. 2 sheets.

CLASS : 134 A.

158037

Int. Cl. : B 60 q 1/00.

Title : TWO WHEELER MOTOR VEHICLES HAVING FLASHING DIRECTION INDICATORS.

Applicants : BAJAJ AUTO LTD., AKURDI, PUNE-411 035, MAHARASHTRA, INDIA.

Inventors : (1) MYSORE SUBBARAU KASHAV, (2) NAMDEO PREMUL AMBULE, (3) SATISH BAPURAO BHALLERAO.

Application No. 340/Bom/1983 filed October 31, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

4 Claims

A two wheeler motor vehicle wherein a pair of the front flashing direction indicators located within a part or member of the vehicle as hereinbefore described at the front and a pair of the rear flashing direction indicators located in the rear side of the body of the vehicle, each front flashing direction indicator comprising a bulb housing having at least one bulb fixed within a reflector connected to the rear of the said part or member of the vehicle and a transport refractor cover located externally over an aperture in the said part or member and each rear flashing direction indicator comprising a bulb housing having at least one bulb fixed within a reflector and located within the rear part of the body of the vehicle behind an aperture and a transparent refractor cover located over the aperture externally of the rear part of the body of the vehicle.

Compl. specn. 8 pages.

Draw. 2 sheets.

CLASS : 32 F 2a b, c.

158038

Int. Cl. : C07 c 103/30.

MANUFACTURE OF N-MONOSUBSTITUTED AMIDES USING CATION EXCHANGE RESIN.

Applicants : INDIAN PETROCHEMICALS CORPN. LTD., P.O. PETRO CHEMICALS, DISTRICT VADODARA-391 346, GUJARAT, INDIA.

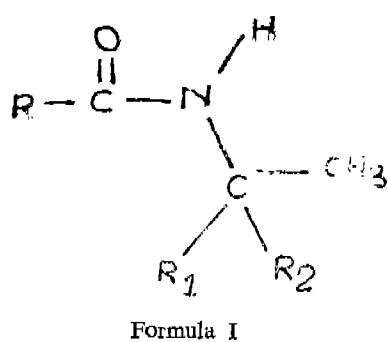
Inventors : (1) DR. SWAMINATHAN SIVARAM and (2) DR. NAGABUSHANAM KALYANAM.

Application No. 352/Bom/1983 filed November 8, 1983.

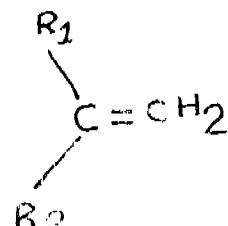
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

11 Claims

A process for the manufacture of N-monosubstituted amide of formula I



of the accompanying drawings wherein R is selected from aliphatic, cycloaliphatic or aromatic radicals having a total number of 2 to 20 carbon atoms, R₁ is an aromatic group and R₂ hydrogen or alkyl group or both R₁ and R₂ are alkyl group or cycloalkyl group having a total number of 4 to 20 carbon atoms which comprises the steps of heating a mixture of an olefin of the formula II



Formula II

Where R₁ and R₂ are as defined above, a nitrile of the formula III



Formula III

wherein R is as defined above and X is an integer from 1 to 6 and a strong cation exchange resin in its hydrogen form such as herein described to a temperature of from 50-80°C, hydrolysing said reaction mixture and recovering the N-monosubstituted amide.

Compl. specn. 9 pages.

Draw. 1 sheet.

CLASS : 15 C + D.

158039

Int. Cl. F 16 C 17/10 + 33/00.

INTEGRATED SHAFT BEARING.

Applicant & Inventor : PELAPOOR MUPRAL SRINIVASA VARADAN, PLOT NO. A-483, ROAD NO. 24, WAGLE ESTATE, THANA-400 604, MAHARASHTRA, INDIA.

Application No. 354/Bom/1983 filed Nov. 9, 1983.

Compl. after prov. left Mar 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

4 Claims

An integrated shaft bearing comprising a bearing housing carrying thrust bearing to take the axial loads and roller bearing to take radial loads; a shaft passing through the said bearings; seal rings provided at the ends of the said bearing housing to protect such bearings from ingress of moisture and dirt and to seal the lubricant permanently therewithin and end covers to house the seal rings in place.

Compl. Specn. 5 pages.

Draw. 1 sheet.

Prov. Specn. 2 pages.

Draws. Nil.

IND CLASS : 160 C.

158040

Int. Cl. : B 60 r-19/02.

Title : TWO WHEELER MOTOR VEHICLES PROVIDED WITH BUMPERS.

Applicants : BAJAJ AUTO LTD., AN INDIAN COMPANY OF AKURDI, PUNE-411 035, MAHARASHTRA, INDIA.

Inventors : MYSORE SUBBARAU KESHAV; NAMDEO PREMLAL AMBULE.

Application No. 387/Bom/1983 filed on 12th Dec. 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-400 013.

7 Claims

A two wheeler motor vehicle fitted with a bumper on its front one or two or more split parts, mounted in alignment with each other to form the front mudguard and suitably secured to the steering column/s, the number of bumpers being made of a shock absorbing resilient material and adapted to be deformed in shape in the event of collision with any obstruction and capable of resuming its normal shape when freed and secured to the front most or front most and rear most parts of said split front mudguard thereby urging the mudguard to yieldably collapse in the event of collision and regain normal position when freed thereby absorbing impact of collision and saving damage to the vehicle.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 119-B; 172-B, C, D.

158041

Int. Cl. : D 02 h 13/16.

IMPROVED REED DENT FOR JET WEAVING MACHINES.

Applicant : SULZER RUTI MACHINERY WORKS LTD., 8630 RUTI, ZURICH, SWITZERLAND.

Inventor : 1. ROLF HONEGGER.

Application No. 216/Cal/82 filed February 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A reed dent for jet weaving machines, said reed dent having a recess on the forward edge thereof for guiding and beating-up the weft thread and being characterized in that the reed dent is comprised of two arms which are mutually inclined and which include an angle of between 150° and 180° on the forward side of the reed dent.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 32-E; 40-B.

158042

Int. Cl. B' 01 i 11/00.

A PROCESS OF PREPARATION OF A CATALYST FOR THE POLYMERIZATION OR COPOLYMERIZATION OF ETHYLENE.

Applicant : NISSAN CHEMICAL INDUSTRIES LTD. OF 7-1, 3-CHOME, KANDA-NISHIKI-CHO, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TAKESHI IWABUCHI, 2. HIROSHI MORINAGA, 3. MASAO KAWAHARA, 4. SAKAE KAMI-YAMA, 5. TFRUMI SATO, 6. MUNEJO YOKOTA.

Application No. 639/Cal/82 filed June 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

16 Claims

A process of preparation of a catalyst for the polymerization or copolymerization of ethylene which comprises preparing a reaction product (A) of an organic aluminum compound (I) represented by the formula $\text{AIR}^1_{n-n} \text{X}_{2-n}$ where R^1 is hydrogen

or an alkyl group having from 1 to 10 carbon atoms, X is Cl or Br and n is a number satisfying $0 < n < 3$, with a mixture of a straight chain aliphatic alcohol and a branched chain aliphatic alcohol or a cyclic alcohol, separately preparing a reaction product (B) of an organic magnesium compound with a compound selected from the group comprising a hydropolysiloxane and a silicon compound in which organic groups and hydroxyl group are bonded to silicon atoms, reacting the reaction product (A) with the reaction product (B) to produce a reaction product (C), reacting the reaction product (C) with a halogen-containing titanium or vanadium compound to obtain a solid product (C') and bringing the solid product (D) in contact with an organic aluminum compound (II) represented by the formula $\text{AIR}^1_{n-n} \text{X}_{2-n}$ where R^1 is a hydrocarbon group having 1-8 carbon atoms, X is a halogen atom, hydrogen atom or an alkoxy group and n is a number from 1 to 3.

Compl. Specn. 38 pages.

Drg. Nil.

CLASS : 40-E + H; 56-A + E.

158043

Int. Cl. : B 01 d 3/14, 53/00; C 10 g 5/06; F 25 j 3/02 + 3/08,

RECOVERING CONDENSABLES FROM NATURAL GAS.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. CESARE FAHBRI, 2. GIANFRANCO BELLA, 3. GIUSEPPE LE MANTIA, 4. BIAGIO FAILLA.

Application No. 786/Cal/82 filed July 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for recovering condensable hydrocarbons having upto 6 carbon atoms from natural gas, comprising the following preliminary stages :

(1) Cooling (2) the natural gas down to a temperature slightly above the temperature at which hydrates are formed :

(ii) Dehydration by pumping through solid dried beds (6) of the condensates in separator (4) thus obtained and feeding thereof to the bottom section (28) of a fractionation column (25, 29, 28);

(iii) Dehydration by blowing through solid drier beds (8) of the separated gas from separator (4) and cooling (11) of same while recovering negative calorics from the residual gas and from a lateral reboiler (12) of the bottom section (28) of said fractionation column (25, 29, 28); said process being characterized in that it further comprises the steps of :

(iv) Separation by cooling of the gases from the condensate in a comparatively high pressure separator (14) and feeding to the first stage of an expansion turbine (16) with expansion to an intermediate pressure corresponding to that of the head of the top section (25) of the fractionation column, the fractionation column consisting of three discrete sections, viz. :—a top section (25) working under the outlet pressure of the first stage of the expansion turbine (16);

an intermediate section (29) working under the outlet pressure of the second stage of the expansion turbine (16) and

a bottom section (28) working under a pressure slightly above the pressure obtaining in the intermediate section (29) so that the emerging vapours coming from the bottom section (28), after a partial condensation, can be sent to the bottom of the intermediate section (29);

(v) Expansion of the condensates under a comparatively high pressure by passing through a regulation valve (17) down to a pressure which permits to feed the liquid thus obtained to the bottom section of the

fractionation column (28), while the obtained gas (19, 22) is mixed with the outlet stream (23) of the first stage of the expansion turbine (16);

(vi) Feeding (24) the outlet stream of the first stage of the expansion turbine, so mixed, to the bottom of the top section of the fractionation column (25), to which is fed in its top by a pump (30), the liquid emerging from the intermediate section (29) of the fractionation column which works under a lower pressure, corresponding to the outlet pressure of the second stage (36) of the expansion turbine;

(vii) Cooling the gas exiting the top section (25) of the fractionation column by the cold residual gas (49), separation of the condensate (33, 34) and feeding (35) the gas to the second stage (36) of the expansion turbine;

(viii) Feeding with the stream exiting the second stage (36) of expansion turbine to the intermediate section (29) of the fractionation column in the upper section thereof and sending to the lower portion of the same section the gas produced in the bottom section (28) of the fractionation column;

(ix) Withdrawal from the intermediate section (29) of the residual gas at a low temperature which is pre-heated and yields negative calories to various points of the system (32, 43, 11, 2) and of the bottom liquid which is pumped (30) to the top of the top section (25);

(x) Fractionation in the bottom section of the fractionation column of the liquids coming from the top section (25), from the medium-pressure separator (34) and from the initial separator (4) after dehydration;

(xi) Sending the gas issuing from the top of the bottom section (28) to the low-pressure gas exchanger (43) and subsequently to the intermediate section (29), the bottom liquid being the produced condensate, the heat required for the fractionation being supplied by the bottom reboiler (50) and by one or more lateral reboilers (12).

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 81.

158044

Int. Cl. : A 42 h 13/00; G 08 b 17/00.

IMPROVEMENTS IN AND RELATING TO FIRE AND EXPLOSION DETECTION APPARATUS SUCH AS FOR A BATTLE TANK.

Applicant : GRAVINER LIMITED, OF SWORD HOUSE, TOTTERIDGE ROAD, HIGH WYCOMBE, BUCKINGHAMSHIRE, ENGLAND.

Inventor : 1. ROBERT LINDSAY FARQUHAR.

Application No. 971/Cal/82 filed August 20, 1982.

Convention dated 20th August, 1981 (81 25485) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Fire or explosion detection apparatus responsive to radiation from fires or explosions and for discriminating between a first case in which radiation is produced from a source of fire or explosion in the presence of hydrocarbon fuel before it commences to burn and a second case in which radiation is produced therefrom in the absence of the hydrocarbon fuel so as to produce an alarm signal in the first case but not in the second case, comprising first and second radiation detection means arranged to produce electrical signals in response to radiation received in respective narrow wavelength bands, the wavelength band of the first radiation detection means being a wavelength band in which the hydrocarbon fuel absorbs radiation from the said source and the wavelength band of the second radiation detection means being a wavelength

band not associated with absorption by the hydrocarbon fuel of radiation from the said source; and output means comprising means for comparing the electrical signals of the two detection means whereby to produce a said alarm signal indicative of the said first case when the comparison indicates that the signal from the first detection means is relatively low compared with the signal from the second detection means.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 40-F.

158045

Int. Cl. : B 01 j 1/00.

A DEMULSIFICATION PROCESS.

Applicant : THE DOW CHEMICAL COMPANY AT MIDLAND, COUNTY OF MIDLAND, STATE OF MICHIGAN, UNITED STATES OF AMERICA.

Inventors : 1. GEORGE ROBERT KILLAT, 2. JERRY R. CONKIN.

Application No. 147/Cal/83 filed February 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A demulsification process which comprises contacting an emulsion of oil and water with a water-soluble quaternized polyamidoamine adduct as herein described in an amount of from 1 to 1000 weight parts of the adduct per million weight parts of the emulsion to separate into two essentially distinct phases, said quaternized polyamidoamine (1) having amide and amine moieties in its backbone and bearing 0.1 to 2 mole pendent quaternary ammonium moieties per mole of amine nitrogen in the polyamidoamine as herein described and (2) being an adduct of a polyamidoamine and a quaternary agent containing the quaternary ammonium moiety and a moiety capable of reacting with the polyamidoamine.

Compl. Specn. 29 pages.

Drg. Nil.

CLASS : 32-D.

158046

Int. Cl. : C 07 f 7/02.

A PROCESS FOR THE PRODUCTION OF ALDEHYDE CONTAINING HYDROLYZABLE SILANES.

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT (06817), UNITED STATES OF AMERICA.

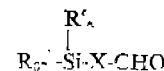
Inventor : 1. HERBERT EUELL PETTY.

Application No. 348/Cal/83 filed March 23, 1983.

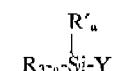
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

A process for producing an aldehyde containing hydrolyzable silane having the formula



wherein R represents an alkoxy radical having from 1 to 4 carbon atoms, R' represents a monovalent alkyl radical having from 1 to 4 carbon atoms, X represents a divalent organic radical containing from 2 to 8 carbon atoms and a has a value of 0 to 2, which comprises hydroformylating a hydrolyzable silane having the formula



wherein Y is an ethylenically unsaturated organic radical and R, R' and a are as defined above, with carbon monoxide and hydrogen in the presence of a Group VIII transition metal

complex hydroformylation catalyst, at a reaction temperature of from 50°C to 200°C, under a total gas pressure of from 1 to 700 atmospheres and at hydrogen gas to carbon monoxide gas ratios of from 10 : 1 to 1 : 10.

Compl. Specn. 41 pages.

Drgs. 2 sheets.

CLASS : 130-G.

158047

Int. Cl. C 22 b 21/06.

AN IMPROVED PROCESS FOR PRODUCING ALUMINUM IN A VERY HIGH STATE OF PURITY IN RESPECT OF EUTECTIC ELEMENTS.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BAIZAC, 75008 PARIS, FRANCE.

Inventor : 1. JEAN PLATEAU.

Application No. 355/Cal/83 filed March 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for producing aluminium containing at most 10 ppm of each of eutectic elements iron and silicon from aluminium containing less than 200 ppm of the same elements, which is achieved by segregation of a metal which is already very pure, characterised in that at least one eutectic element is added in a hypoeutectic amount to said liquid metal before the segregation operation, for the purposes of making that operation more efficient, which element is either very completely eliminated in the course of said operation or remains in the purified product formed by the said phase.

Compl. Specn. 12 pages. Drg. nil.

CLASS : 70-B + 70-C₅.

158048

Int. Cl. B 01 k 3/00.

A PROCESS FOR THE PRODUCTION OF AN ION EXCHANGE MEMBRANE WITH A COATING THEREON FOR USE IN ELECTROLYSIS.

Applicant : PERMELEC ELECTRODE LTD., OF NO. 1159, ISHIKAWA, FUTISAMA-SHI, KANAGAWA, JAPAN.

Inventors : 1. HIROSHI ASANO, 2. TAKAYUKI SHIMAMUNE, 3. KAZUHIRO HIRAO.

Application No. 414/Cal/83 filed April 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for the production of an ion exchange membrane with a coating thereon for use in electrolysis, which comprises :

coarsening the surface of said ion exchange membrane by ion etching and,

thereafter, coating in a known manner the thus-coarsened surface with a substance with low electrochemical activity comprising at least one member selected from the group consisting of carbon, graphite, platinum, tin oxide, titanium oxide, and tantalum oxide.

Compl. Specn. 15 pages. Drg. 1 sheet.

CLASS : 136-F.

158049

Int. Cl. C 08 g 37/00.

PROCESS FOR PRODUCING ACIDPROOF LINING MATERIAL.

Applicant : VSEHOZUZY NAUCHNO-TESTEDOVATEL'SKY INSTITUT NERUDNYKH STROITEL'NYKH MATERIALOV I GIDROMECHANIZATSI, TOLYATTI, YAROSLAVESKAYA ULITSA, 8, USSR.

Inventors : 1. VLADIMIR MIKHAILOVICH TOMILO, 2. STANISLAV ANDREEVICH POTAPOV, 3. NIKOLAI GRIGORIEVICH KHUDYAKOV, 4. SVETLANA MAXIMOVNA TRAVNITSKAYA, 5. VLADIMIR MIKHAILOVICH KORNENKO, 6. VIKTOR VASILEVICH DOBROJUBOV, 7. SERGEI VITALIEVICH CHEKHOVSKY, 8. GALINA VASILEVNA FEDORENKO, 9. VALENTINA IVANOVNA GRABYLNKOVA.

Application No. 784/Cal/83 filed June 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for producing an acidproof lining material comprising mixing natural amorphous graphite with a novolac phenol-formaldehyde resin, a hardener and a solution of a resol phenol-formaldehyde resin in ethanol or acetone, the ratio of said components in the acidproof lining material being as follows (in % weight) :

natural amorphous graphite 70—80.

novolac phenol-formaldehyde resin 9—22.5,
hardener 1—2.5.

solution of a resol phenol-formaldehyde resin 5—15.
(as calculated for dry solids).

the resulting composition is fried at a temperature of 60-80°C to remove the solvent and bounded, whereafter the resulting composition is compression-moulded under a specific pressure of 15 to 20 MPa at a temperature of from 160 to 180°C, the shaped blanks are maintained at a temperature of 160-180°C for a period of 2 to 5 hours.

Compl. Specn. 16 pages. Drg. nil.

CLASS : 32-F, * (b); 56-A.

158050

Int. Cl. C 07 c 65/20.

PROCESS FOR THE DECOMPOSITION OF A COMPLEX OF ORTHIOBFENZOYL BENZOIC ACID, HYDROGEN FLUORIDE AND BORON TRIFLUORIDE.

Applicant : PCUK PRODUITS CHIMIQUES UGINE KUHLMANN, OF TOUR MANHATTAN LA DEFENCE 1, 5 & 6, PLACE DE L'IRIS, 92400 COURBEVOIE, FRANCE.

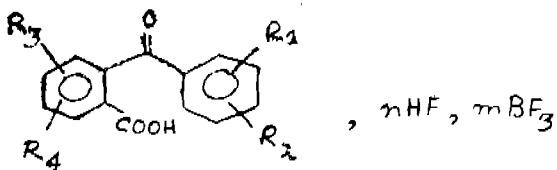
Inventor : 1. MICHEL DEVIC.

Application No. 1033/Cal/83 filed August 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Process for the decomposition of complexes of ortho-benzoylbenzoic acids, hydrogen fluoride and boron trifluoride, of general formula I shown in the accompanying drawings,



4

wherein each R₁, R₂, R₃ and R₄ independently represents a hydrogen or halogen atom or a straight-chain or branched alkyl group with 1 to 5 carbon atoms, and n and m are from 1 to 6, in order to obtain orthobenzoylbenzoic acid, and hydrogen fluoride and boron trifluoride which process comprises subjecting the complex to the action of an inert solvent at a temperature of at least 20°C, in a distillation column having at least 8 theoretical plates and operating with a reflux of solvent equal to 5 to 40 times, by weight, the feed flow rate of the column.

Compl. Specn. 10 pages. Drgs. 3 sheets.

CLASS : 198 D.

158051

Int. Class : B 03b 7/00.

"IMPROVED SPIRAL SEPARATOR."

Applicant : MINERAL DEPOSITS LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA, OF 81 ASHMORE ROAD, SOUTHPORT, QUEENSLAND, AUSTRALIA.

Inventor : PHILIP JOHN GIFFARD.

Application for Patent No. 255/DEL/1982 filed on 26th March, 1982.

Convention date on March 26, 1981/PE 8165/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved spiral separator of the kind used for the wet gravity separation of solids comprising at least two troughs each having a splitter therein, characterised in that a splitter of one trough is mechanically connected to a splitter of the other trough or troughs by a linkage extending through a said trough whereby the splitters are moved in unison, said troughs being substantially identical and the splitter of one is situated at a location which corresponds to the location of the other splitter in the other trough.

Compl. Specn. 12 pages. Drgs. 7 sheets.

CLASS : 125 B₃

158052

Int. Class : G01f, 3/24.

"AN APPARATUS FOR PERFORMING CHEMICAL ANALYSIS".

Applicant : JEAN GUIGAN, OF 9, RUE JEAN MERMOZ, 75008 PARIS, FRANCE, A FRENCH CITIZEN.

Inventor : JEAN GUIGAN.

Application for Patent No. 271/DEL/1982 filed on 2nd April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An apparatus for performing chemical analysis such as herein described which comprises a rotor, said rotor comprising a rotatable container having a vertical axis of rotation, said container being subdivided to constitute :

a radially inner basin, said basin being divided into a plurality of compartments by means of radial partitions, said compartments being suitable for receiving a volume of sample liquid, said volume being greater than a predetermined volume of sample liquid to be delivered from said compartment;

a plurality of radially outer receptor cells uniformly distributed around the periphery of said rotor to receive respective predetermined doses of said sample liquid from the corresponding compartments of the basin,

analysis cells connected with or forming a part of said receptor cells;

radially intermediate means located between each said compartment and said receptor cell for conveying said sample liquid from said compartments to corresponding receptor cells under the effect of centrifugal force, said radially intermediate means comprising between the compartments and the corresponding receptor cells, measurement chambers and means responsive to the direction of rotation of the rotor, said means responsive to the direction of rotation of the rotor being connected to said measurement chamber;

overflow chamber means located radially outwardly of said radially intermediate means and connected to said radially intermediate means;

each of said measurement chambers having an inlet orifice in communication with a corresponding one of said compartments and an outlet orifice in communication with the corresponding means responsive to the direction of rotation of the rotor, said measurement chambers defining a volume extending between said inlet and said outlet orifices, said volume corresponding to said predetermined doses, and said means responsive to the direction of rotation of the rotor directing liquid issuing from said outlet from the corresponding measurement chamber to said overflow chamber means when said rotor is rotating in a first direction and to a respective corresponding one of said receptor cells when said rotor is rotating in a second opposite direction.

Compl. Specn. 14 pages. Drgs. 6 sheets.

CLASS : 191.

158053

Int. Class : B41j 33/00.

"AN IMPROVED TYPEWRITER HAVING POSITION CONTROL MECHANISM FOR A TYPEWRITER RIBBON CARTRIDGE".

Applicant : REMINGTON IND. OF F. COM. DE SISTEMAS PARA ESCRITORIO S.A., OF 21.660 RIO DE JANEIRO, BRAZIL, AV. BRAZIL 22950. A BRAZILIAN COMPANY.

Inventor : NICOLÒ GIOLITTA.

Application for Patent No. 300/DEL/1982 filed on 14th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

14 Claims

CLASS : 32E & 152F.

158055

An improved typewriter having position control mechanism for a typewriter ribbon cartridge of the type comprising a frame which carries on different planes a first and a second ribbon and a mechanism which controls the positioning of the said cartridge with respect to a typewriting member the said mechanism being characterised by the fact that it comprises :

- (a) a drive shaft the rotation of which about its own axis is controlled by control means which establish, on the basis of signals received from the keyboard of the said typewriter, both the direction (clockwise or anti-clockwise), and the magnitude thereof;
- (b) a support element which supports the frame of the said cartridge and
- (c) conversion means which convert the rotations of the said drive shaft into axial displacements of the said support element in such a way as to make the said cartridge assume a first, a second, or a third stable position in the first of which positions the said first ribbon is located in front of the typewriting member, in the second of which positions the said second ribbon is located in front of the typewriting member, and in the third of which positions neither of the said ribbons is located in front of the said typewriting member.

Compl. Specn. 19 pages. Drgs. 6 sheets.

CLASS : 61H. 158054

Int. Cl. : D 01b 1/48.

"A DRYER FOR USE IN APPARATUS FOR CHEMICAL TREATMENT OF KNITTED OR WOVEN TEXTILE WEBS."

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPN. OF INDIA, 61, RING ROAD, LAJPAT NAGAR-III, NEW DELHI-110024, INDIA, A CO. REGISTERED DELHI-110024, INDIA, A COMPANY REGISTERED UNDER THE INDIAN COMPANIES ACT.

Inventors : ROMESH CHANDER GUPTA AND JIWAN SINGH RAWAT.

Application for Patent No. 315/DEL/82 filed on 20th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A dryer for use in an apparatus for chemical treatment of knitted or woven textile webs comprising a chamber having at least one perforated drum, a first inlet extending within said drum and allowing an outward flow of a drying fluid from said drum so as to cause the fabric over said drum to be in a state of flutter and simultaneously effecting drying of the fabric, a second inlet provided on the chamber above the said drum for admitting drying fluid into the said chamber

Compl. Specn. 8 pages.

Drg. 1 sheet.

Int. Cl. : C08f 3/04 & 29/04.

"PROCESS FOR THE PREPARATION OF MODIFIED COPOLYMERS OF ETHYLENE AND AT LEAST ONE α -OLEFINE".

Applicant : SOCIETE CHIMIQUE DES CHARBONNAGES S.A., A FRENCH COMPANY OF TOUR AURORE, PLACE DES REFLETS, PARIS LA F-92080 DEFENSE, CEDEX NO. 5, FRANCE.

Inventor : JEAN-PIERRE MACHON, GENEVIEVE LE BRASSEUR, MARIUS HERT AND JEAN-CLAUDE DECROIX.

Application for Patent No. 323/DEL/1982 filed on 26th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

Process for the preparation of modified copolymers of ethylene and of at least one α -olefine having from 3 to 12 carbon atoms which comprises copolymers of ethylene with at least one such α -olefine in at least one reactor having at least one reaction zone in the presence of a Ziegler-type catalyst system, at a temperature of 180°C to 320°C and under a pressure of 300 to 2,500 bars, if desired, in the presence of up to 2 mol % of hydrogen, the average residence time of the catalyst system in the reactor being between 1 and 120 seconds, characterised in that the resulting copolymer is then brought into contact with 0.01 to 1 millimol, per kg. of copolymer, of at least one free-radical initiator, at a temperature between 220°C and 320°C, for a period of between 5 and 200 seconds, under a pressure of less than 1,000 bars.

Compl. Specn. 19 pages.

CLASS : 32F(11) & 39D. 158056

Int. Cl. : C07c 11/00 & C01b 31/24.

"PROCESS FOR PRODUCING ALKYLENE CARBO-NATES."

Applicant : THE HALCON SD GROUP, INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, HAVING ITS OFFICE AND PRINCIPAL PLACE OF BUSINESS AT 2 PARK AVENUE, NEW YORK, NEW YORK-10016, UNITED STATES OF AMERICA.

Inventor : STEPHEN ERNEST JACOBSON.

Application for Patent No. 338/DEL/1982 filed on 29th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A process for producing alkylene carbonates by reacting the corresponding olefins with carbon dioxide comprising contacting the said reactants with iodine or an iodine and with an oxide or a weak acid salt of thallium (III).

Compl. Specn. 20 pages.

CLASS : 24A, D₂.

158057

CLASS : 150 C & E.

158059

Int. Cl. : B60t 13/00, 7/08 & 15/00.

"CAM OPERATED FLUID PRESSURE CONTROL VALVE ASSEMBLY".

Applicant : BENDIX LIMITED, OF DOUGLAS ROAD, KINGSWOOD, BRISTOL BS-15, 2NL, ENGLAND, A BRITISH COMPANY.

Inventor : FREDERICK PETER GIBBONS.

Application for Patent No. 372/DEL/1982 filed on 18th May, 1982. Convention date on 16th July, 1981/8121861/ (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A cam-operated fluid pressure control valve assembly comprising a housing & a slideable valve plunger therein resiliently urged towards a cam-member which is moveable for positioning the plunger within the housing to control the operation of a valve and wherein a roller element is positioned between the plunger and the cam member said roller element to a direction in line with the direction of movement within the housing constraining movement of the rolled element to a direction in line with the direction of movement of the plunger.

Compl. Specn. 6 pages.

Drgs. 2 sheets.

CLASS : 147 C & H.

158058.

Int. Cl. : G 11b 23/00 & 5/00.

"VIDEO TAPE CASSETTE."

Applicant : SONY CORPORATION, A CORPORATION OF JAPAN, LOCATED AT 7-35 KITASHINAGAWA, 6-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventor : SHUICHI OHTA AND ATSUAHIRO KUMAGAI.

Application for Patent No. 457/Del/1982 filed on 17th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A video tape cassette comprising :

a housing of generally rectangular configuration containing reels on which a supply of tape is wound and having top and bottom walls and a peripheral wall extending between said top and bottom walls along three sides of the housing so as to form an opening along the fourth side of the housing, said bottom wall having a recess communicating with said opening and extending along a portion of said fourth side of the housing, the tape being guided between said reels in a path having a run extending along said opening;

a front lid mounted on said housing and movable relative thereto between a closed position covering said opening and an open position exposing said opening; and

a back lid movable in connection with the movement of said front lid between said closed position wherein said back lid is positioned behind said front lid thereby to enclose said tape in cooperation with said front lid and said open position wherein said back lid is moved away from the rear side of said tape so that said run of the tape can be engaged through said recess from withdrawal of the tape through said opening.

Compl. Specn. 12 pages.

Drgs. 8 sheets.

Int. Cl. : F161 15/00, 47/00.

"PIPE JOINT FOR COUPLING PIPES OF FLEXIBLE RESILIENT MATERIALS".

Applicant : FIXOPAN ENGINEERS PVT. LTD., 1ST FLOOR, GURU ANGAD BHAWAN, 71, NEHRU PLACE, NEW DELHI-110 019, INDIA AN INDIAN COMPANY.

Inventors : LALIT KUMAR SINGH.

Application for Patent No. 469/Del/82 filed on 23rd June, 1982.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A joint for pipes made of flexible resilient materials, comprising a tubular coupler member an olive for end of each of two pipes to be jointed, in the form of a split ring having an externally tapered peripheral surface and a nut for securing each olive with the pipe to be jointed to one end of the coupler member, part of the inner surface of the nut having a taper corresponding to the taper on the olive.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 129G.

158060

Int. Cl. : B23d 15/00 & 25/00.

"A DEVICE FOR CUTTING OFF ENDS OF ROLLED SECTIONS".

Applicant : SINGH & ASSOCIATES, 37 RAJPUR ROAD, DELHI-110 054, UNION TERRITORY OF DELHI, INDIA, AN INDIAN PARTNERSHIP FIRM OF WHICH THE PARTNERS ARE RABINDER SINGH AND KRISHNAMURTHY RAMAMRITHAM IYER, BOTH INDIAN NATIONALS AND OF THE ABOVE ADDRESS.

Inventor : RABINDER SINGH & KRISHNAMURTHY RAMAMRITHAM IYER.

Application for Patent No. 470/Del/1982 filed on 23rd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A device for cutting off or shearing of split front or leading ends and tail of trailing ends of bars or other rolled sections referred to between a roughing mill and an intermediate mill or a roughing mill and a finishing mill comprising a pair of overhung shafts, each shaft having fixed on it a roller or wheel, two separate pairs of knives mounted on the two rollers or wheels, means for turning or partially rotating the said rollers or wheels for bringing the knives of each pair of knives together for cutting or shearing off the split ends at the front or tail end of a rolled bar or other section.

Prov. Specn. 4 pages.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 95 I.

158061

Int. Cl. : B 26b 7/12 & 7/14.

"LONG NOSE LOCKING PLIERS".

Applicant : PETERSON MANUFACTURING CO., INC., A CORPORATION OF THE STATE OF NEBRASKA, OF DEWITT, NEBRASKA 68341, UNITED STATES OF AMERICA.

Inventor : CHRISTIAN PETERSEN.

Application for Patent No. 192/Del/1982 filed on 8th March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

19 Claims

A long nose locking pliers having a pair of opposing jaw members, a fixed handle and a movable handle and toggle lever therebetween for maintaining a toggle relationship between the jaws when in a closed position, said fixed handle having a straight strike surface and having an axis passing through said strike surface defining the direction of a line of force impartable to said pliers, said pair of jaws defining a bisecting axis or line formed by the angle of the jaws when closed against a workpiece gripped therebetween, said angle between said axes being less than about 5° when the gripping tips of the jaw members are in a generally closed position, and each of said jaw members comprising a jaw face configuration having a total jaw length to average jaw height ratio of from 6.5 to 11.5, with said jaw members made of an alloy spring steel, said jaw members having a nominal parallel opening when they are spaced apart no greater than 4 inch, thereby enabling said jaw members to clamp a workpiece with parallel jaw faces by flexing to the parallel condition when closed and returning to their original unstressed state when released of clamping pressure and the jaw faces of the said jaw members tapering from their widest point or thickest position through the narrowest point or thinnest position at the tip of the jaws.

Compl. Specn. 24 pages.

Drg. 1 sheet.

CLASS : 32 F₉(b) & 32 s(6)

158062

Int. Cl. : C07c-27/00, 51/00.

"A PROCESS FOR THE PREPARATION OF LONG-CHAIN ALCOHOL".

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO, 44316, UNITED STATES OF AMERICA.

Inventor : DANE KENTON PARKER.

Application for Patent No. 260/Del/1982 filed on 29th March 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the preparation of long-chain alcohol characterized by :

(a) reacting cyclo-dodecanone with morpholine in the presence of a catalyst of the kind such as herein described to form-1-morpholino-1-cyclododecene;

- (b) separating the 1-morpholino-1-cyclododecene and reacting it with an organic acid halide of 15-20 carbon atoms in the presence of a tertiary amine in an organic solvent while maintaining the reaction temperature at 0-10°C. followed by
- (c) hydrolysis under acidic conditions, thereafter
- (d) separating the 2-n-alkyl-cyclotetradecanone and reacting with a solution of alkali metal hydroxide and diethylene glycol at 90-110°C. followed by
- (e) addition of hydrazine hydrate and the reaction mixture is refluxed at 125-135°C. thereafter
- (f) the distillate is removed until the temperature of the reaction mixture climbs to 190-210°C. where it is refluxed for 3 to 20 hours with slow stirring and then
- (g) cooled to 110-125°C. followed by addition of hot water (80-95°C.) with rapid stirring followed by
- (h) neutralization with aqueous acid to a pH of 2 to yield the carboxylic acid which is separated and purified by recrystallization which is then
- (i) dissolved in tetrahydrofuran under an inert atmosphere and has added thereto the reducing agent, borane-methyl sulfide complex with stirring and heated to 40-45°C. for 2 to 3 hours before cooling to ambient temperature followed by the sequential addition of methanol and water to quench excess borane reagent followed by
- (k) separation and purification of the long chain alcohol. Compl. Specn. 13 pages. Drgs. 2 sheets.

CLASS : 71 G.

158063

Int. Cl. : E 21C 25/12.

"IMPROVEMENTS IN OR RELATING TO MINERAL CUTTER TOOLS."

Applicants : ANDERSON STRATHCLYDE LIMITED, A BRITISH COMPANY OF STATION WORKS, SAUNDFRONT, HIGH WYCOMBE, BUCKINGHAMSHIRE, HP 14 4HS, ENGLAND.

Inventor : HENRY MCGAW BROWN.

Application for Patent No. 280/Del/1982 filed on 7th April, 1982.

Convention date on September 19, 1981/8128387/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A mineral cutter pick adapted to be mounted on a mineral mining machine and to cut during translational movement in an endless path thereon which pick comprises a body having a tapered shank of circular cross section for accommodation in a correspondingly shaped recess on a support on a mineral cutting machine to mount the pick on the machine, said shank being adjacent its inner end not substantially less in diameter than at its outer end, the body having a forward end carrying a cutting tip and said body having a passage therethrough for liquid which passage leads from an inlet adjacent to the cutting tip, and a deflection surface of the pick disposed adjacent to

at least one liquid outlet the arrangement being such that liquid issuing from the at least one outlet impinges on the deflection surface so that the stream of liquid is deflected and the formation of a spray enhanced.

Compl. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 32 E.

158064

Int. Cl. : C08f 1/00.

"A PROCESS FOR THE PREPARATION OF TRANSPARENT HIGH IMPACT RESISTANT POLYMERS OF VINYL AROMATIC COMPOUNDS".

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110 007, INDIA, AN INDIAN INSTITUTE.

Inventor : JAI KRISHNA NIGAM, PREM KUMAR MAIR, GEETA UNNIKRISHNAN AND DATTA PRASAD ACHYUT DABHOLKAR.

Application for Patent No. 287/Del/1982 filed on 12th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the preparation of transparent high impact resistant polymers of vinyl aromatic compounds as referred to characterized by the addition of a modified halogen substituted aryl compound having one or more halogen atoms in the aryl ring and one or more halogen atoms in the side chain, to the reaction mixture which is being subjected to polymerisation in the known manner.

Complete Specification 9 pages.

CLASS : 24 D₂.

158065

Int. Cl. : F. 16d 65/00 and B 60 t 15/02.

"FLUID PRESSURE OPERABLE VEHICLE BRAKING SYSTEM RELAY VALVE."

Applicant : BENDIX LIMITED, A BRITISH COMPANY OF DOUGLAS ROAD, KINGSWOOD, BRISTOL BS15 2NL, ENGLAND.

Inventors : ROBIN JOHN DALE AND SIDNEY ALAN LIPPAIT.

Application for Patent No. 303/Del/1982 filed on 14th April, 1982.

Convention date on May 1st, 1981/8113441/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A fluid pressure operable vehicle braking system relay valve comprising a housing having a supply pressure port, a control pressure port an output pressure port and a vent port a double valve located in fluid paths in said housing controlled by a main pressure responsive member to connect said output port alternatively to the supply port or to the vent port in accordance with controlling pressures acting in the housing upon said main pressure responsive member, a first pressure

responsive surface portion of said member being subject to control pressure port, a second opposing pressure at said control pressure port, a second opposing pressure responsive surface portion of said pressure responsive member being subject to pressure at said output port and a pressure dependent valve device located on said pressure responsive member and in a fluid path therethrough to admit control port pressure or output port pressure across a further surface portion of the pressure responsive member to produce up to a predetermined pressure differential thereon corresponding to an initial range of control pressure in a sense to assist the action of the control pressure and thereby provide the pressure delivered to the output port with a predetermined predominance in relation to the control pressure.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 133A & 126D.

158066

Int. Cl. : H02k 37/00 & F16f 15/03.

"APPARATUS FOR MONITORING THE VELOCITY OF A ROTATING BODY AND FOR DAMPING THE OSCILLATIONS THEREOF".

Applicant : MCC ASSOCIATES, OF 73 ATHENS ROAD, SHORT HILLS, NEW JERSEY 07078, UNITED STATES OF AMERICA, A U.S. CORPORATION.

Inventor : DAVID CHIANG, MOSI CHU AND SOLOMON MANBER.

Application for Patent No. 321/Del/1982 filed on 26th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

Apparatus for monitoring the velocity of a rotating body and for damping the oscillations thereof when the rotating force to said body has been withdrawn which comprises transducer means connected to said rotating body for generating a signal the amplitude of which is a function of the position of said body, means connected to said transducer means for periodically converting the instantaneous amplitude of said generated signal to a digital value, processing means connected to said converting means for subtracting two sequentially occurring digital values to derive a remainder digital value, addressable storage means having a plurality of registers each of which is adapted to store a different digital velocity value relative to a different one of said remainder digital values and transmitting means connected between the said processing means and said addressable storage means for transmitting said remainder digital values from said processing means to said storage means an addresses for selecting the registers of said addressable storage means.

Compl. Spec. 22 pages.

Drgs. 4 sheets.

CLASS : 174 B&G.

158067

Int. Cl. : F 16f 7/00.

"IMPROVEMENTS IN OR RELATING TO SHOCK AND/OR VIBRATION DAMPING DEVICE FOR USE BETWEEN A SUPPORTING ELEMENT AND A SUPPORTED ELEMENT".

Applicant : BARRY WRIGHT CORPORATION, 81 NEWTON EXECUTIVE PARK, NEWTON LOWER FALLS, MASSACHUSETTS, U.S.A., A CORPORATION INCORPORATED IN THE COMMONWEALTH OF MASSACHUSETTS, U.S.A.

Inventor : ANDRE LUCIEN PINEAU.

Application for Patent No. 334/Del/1982 filed on 28th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

17 Claims

A shock and/or vibration damping device for use between a supporting element and a supported element, comprising a body adapted to be assembled to one of said elements including a preferably substantially cylindrical cavity having a cavity side wall and a cavity bottom wall, a piston comprising a piston head situated in said cavity and a piston rod, the rod being adapted to be assembled to the other one of said elements, and at least one resiliently deformable supporting membrane arranged in said cavity and interposed between the piston head and the cavity bottom wall confronting it, characterised in that the piston head is embedded in the mass of a resiliently deformable piston head membrane, the shape of the surface of the piston head membrane is at least partially conformed to the shape of the surface of said supporting membrane on which it bears; at least the supporting membrane has a substantially bell-shaped major portion and is provided with a peripheral skirt portion which is directed towards the top of said supporting membrane with a point of inflexion defined by the junction of said peripheral skirt portion and said bell portion of the membrane, said supporting membrane freely and slidingly bearing against the side wall of the cavity of said body.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 154 G.

158068

Int. Cl. : B 41 I 13/08 and B 41 f 15/00.

"MULTI-CYLINDER STENCIL DUPLICATOR."

Applicant : GESTETNER MANUFACTURING LIMITED, A BRITISH CO. OF FAWLEY ROAD, TOTTENHAM, LONDON N17 9LT, ENGLAND.

Inventor : COLIN ROY STEVENS.

Application for Patent No. 337/Del/82 filed on 29th April, 1982.

Convention date on May 22nd, 1981/8115823/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A multi-cylinder stencil duplicator including means for applying a uniform coating of ink to one of the cylinders with a constant application of ink at any point along that one cylinder, an ink screen being supported on the cylinders so that in use of the duplicator it moves around the cylinders and along rectilinear paths therebetween which are tangential to said cylinders; a stencil support bar connected to the ink screen and effective to hold the leading end of a stencil for said movement on said ink screen around said cylinders; and an impression roller adjacent one of said cylinders for pressing a copy sheet, the stencil and the ink screen against said one of the cylinders, said ink screen presenting a higher permeability to ink near the tail of the stencil to be mounted thereon than over the remainder of the ink screen.

Compl. Specn. 26 pages.

Drgs. 6 sheets.

CLASS : 175G, 176E & 177D.

158069

"ONCE-THROUGH VAPOR GENERATOR START-UP SYSTEM".

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70112, UNITED STATES OF AMERICA.

Inventor : KURT HANS HALLER, CARL LIEB AND PETE GEORGE TODOROFF.

Application for Patent No. 342/Del/1982 filed on 30th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A once-through vapor generator start-up system comprising : main fluid connection means connecting in series flow relationship, vapor generator means, superheating means having a primary superheater and secondary superheater, turbine means, reheater means and condenser means; a collecting and separating means connected to said main fluid connection means, first and second steam spray attemperator flow lines, said first steam spray attemperator line being connected from said collecting and separating means to a point downstream of the secondary superheater and the second steam spray attemperator flow line being connected from the collecting and separating means to a point downstream of the reheater means.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 172 A.

158070

Int. Cl. : B31C 7/00.

"A FRUSTOCONICAL SUPPORT ELEMENT".

Applicant : GUNTHER S.A., OF 53, RUE DE LA PAPETERIE, 70800 FONTAINE-LÈS-LUXEULL, FRANCE. A FRENCH COMPANY.

Inventor : JEAN PATRICK BRIAND.

Application for Patent No. 383/Del/82 filed on 20th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A frustoconical support element for use in the winding of textile threads or the like which comprises a conically converging shape formed from the winding of a single strip cut from a web of planar material into overlapping turns, said strip having been cut in step-and-repeat manner along an arc of a circle whereby the cuts made form an edge of one strip and an opposed edge of the next successive strip, said conical converting shape having the large or base end thereof formed with a greater number of layers of said blanks than the small or top end thereof and thereby more layers thickness of said material at its base than at its top, said element exhibiting substantially constant resistance to radial compression over its axial length.

Compl. Specn. 20 pages.

Drgs. 3 sheets.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by ALLIED CORPORATION under Section 20(i) of the Patents Act, 1970 to proceed the application for Patent No. 151019 in their name has been allowed.

(2)

The claim made by KABELMETAL ELECTRO GmbH under Section 20(i) of the Patents Act, 1970 to proceed the application for Patent No. 151783 in their name has been allowed.

**CORRECTION OF CLERICAL ERRORS UNDER SECTION
78(3)**

The description in page 1A and claim I in page 16 of the Complete Specification in respect of Patent application No. 154107 (earlier number 264/Cal/1981) the acceptance of which was notified in Part III, Section 2 of the Gazette of India dated the 25th September, 1984 has been corrected under Section 78(3) of the Patents Act, 1970.

PATENTS SEALED

151783 154683 155121 155576 155678 155683 155684 155685
 155688 155689 155690 155691 155692 155693 155695 155698
 155699 155725 155738 155739 155741 155750 155752 157759
 155761 155762 155763 155770 155777 155780 155790 155827
 155830 155984 156047 156364 156390

RENEWAL FEES PAID

137897 138078 139539 140481 140698 140767 141439 141505
 141897 141902 142123 142166 142518 142908 143341 143343
 143434 143762 144002 144007 144095 144104 144111 144133
 144516 144604 144610 144843 145300 145778 146008 146188
 146191 146772 147394 147469 147804 147849 148221 149228
 150056 150123 150211 150385 150386 150540 150588 150916
 151065 151290 151919 152050 152155 152188 152698 152821
 152823 152917 152932 152975 153468 153527 153669 153720
 154122 154187 154351 154441 154910 155055 155060 155573
 155659

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in section 50 of the Design Act, 1911.

The dates shown in the each entry is the dates of registration of the design included in the entry.

Class 1. No. 157230, OMID Engg. Private Limited, Flat No. UG-7 to 9, Shivlok House-II, Najafgarh Road, New Delhi-110 015, India, a company incorporated under the Indian Companies Act. "Wicks Stove". 4th July, 1986.

Class. 3. Nos. 156463, 156464, 156465, 156468, 156473, Capri-hans India Limited, an Indian company, being an existing company within the meaning of that expression in the Companies Act, 1956, of India, having its registered office at Block D, Shivasagar Estate, Dr. Annie Besant Road, Worli, Bombay-400 018, State of Maharashtra, India. "sheets made of Polyvinyl chloride or in which polyvinyl chloride predominate". 24th December, 1985.

Class. 3. Nos. 156532, 156533, 156535, Rotomould (India), Vijay Industrial Estate, Padra Road, Samiata, Baroda-391 410, Gujarat, India, An Indian Partnership firm. "Storage Tank". 30th April, 1986.

Class. 3. No. 156534, Rotomould (India), Vijay Industrial Estate, Padra Road, Samiata, Baroda-391 410, Gujarat, India, an Indian Partnership firm. "Storage Drum". 17th January, 1986.

Class. 3. Nos. 157002, 157003, 157005, Rotomould (India), Vijay Industrial Estate, Padra Road, Samiata, Baroda-391 410, Gujarat, India, An Indian Partnership firm. "Storage Tank". 30th April, 1986.

R. A. ACHARYA,
 Controller General of Patents, Designs and
 Trade Marks

